

MineQuest Report #221(a)
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ADDITION:

FILE NO:

ANZAC MAGNESITE PROPERTY

DIAMOND DRILLING

JUNE, 1989

North Central British Columbia
Cariboo Mining Division

N.T.S. 93J/16W, 93O/01W

Latitude 54° 59' N
Longitude 122° 25' W

UTM 537000 m E, 6093000 m N

for
Norsk Hydro - Magnesium Division

by
A.W. Gourlay

of
MineQuest Exploration Associates Ltd.

<u>Claim Name</u>	<u>Record Number</u>	<u>Units</u>	<u>Record Date</u>
FRIA	8029	18	Oct. 1, 1986
ODIN	8030	18	Oct. 1, 1986
HELA	8031	18	Oct. 1, 1986
HOTH	8032	06	Oct. 1, 1986
THOR	8033	12	Oct. 1, 1986

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

Vancouver, B.C.

August 1989
19,213

SUMMARY

The Anzac property of Norsk Hydro consists of five mineral claims covering 18 km² in north Central British Columbia, 640 km north of Vancouver.

Exploration drilling has tested two of five occurrences of sediment-hosted coarse crystalline magnesite on the property. The magnesite occurs on a dip-slope within a fine-grained dolomite of probable Lower Cambrian age.

The coarse magnesite, which is hosted by a magnesite-bearing dolomite at least 85 metres thick, reaches a true thickness of 14.5 metres. The magnesite extends down-dip to a vertical depth of at least 115 metres. The best sample in drilling contained 42.84% MgO, 0.99% SiO₂, 1.67% Al₂O₃ + Fe₂O₃ and CaO/MgO:0.088.

The following exploration program is recommended:

- Phase I: Geological mapping, rock sampling, and test soil sampling on the claims, local reconnaissance beyond property limits.
- Phase IIa: Diamond drilling to follow-up the preliminary drilling and to test other known occurrences.
- Phase IIb: Exploration drilling between known magnesite occurrences to test targets defined by the Phase I mapping.

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(DDH 89-01: 88.0 m)
- 2) Massive, coarse crystalline magnesite. Note stylolite at left center of photo.
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- 3) Magnesite crystals radiating from stylolite. Note thin coating of oxidized pyrite on stylolite.
(DDH 89-03: 70.0 m)
- 4) Magnesite crystals radiating from stylolites and rare veins. Length of crystals up to 35 mm.
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1.0

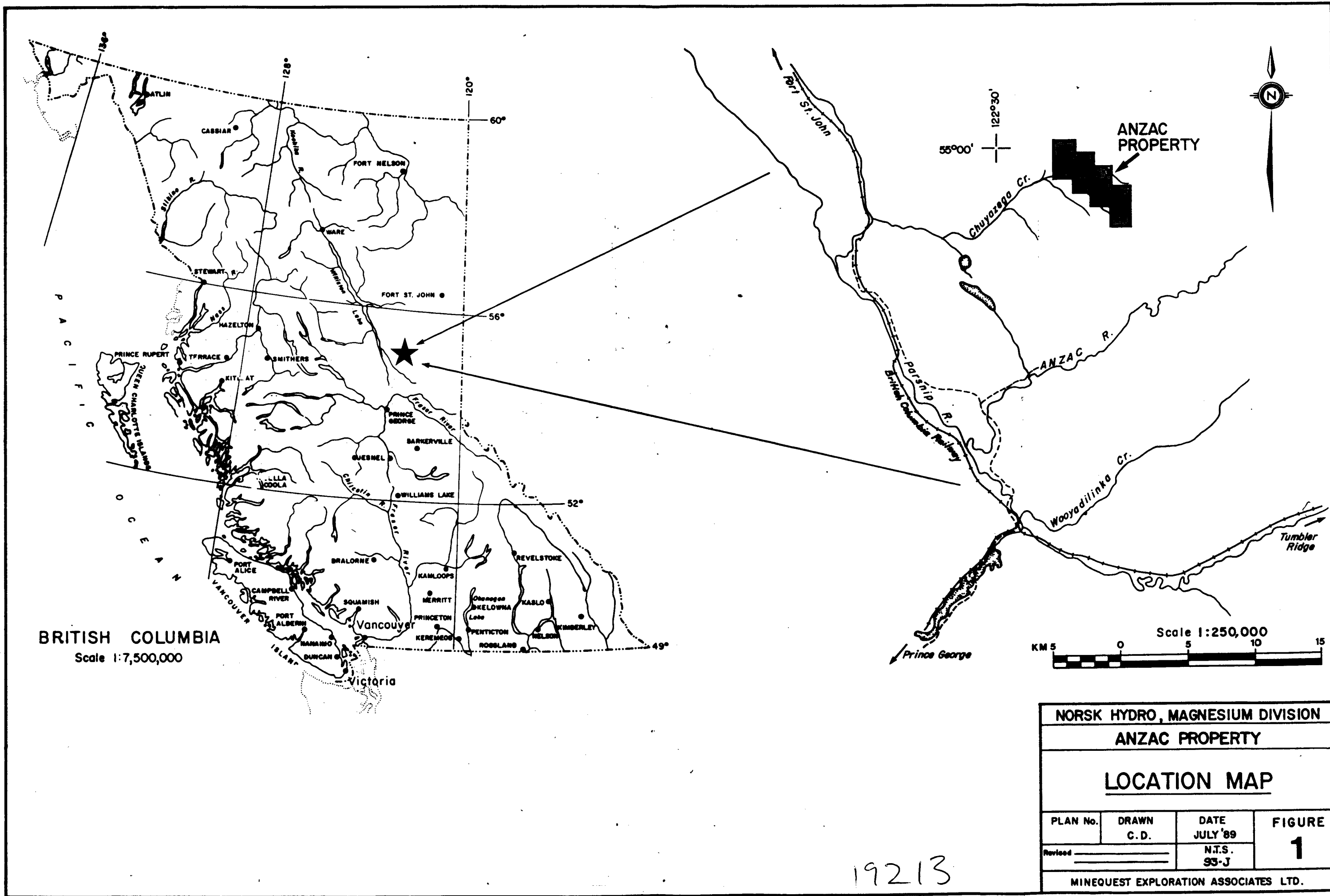
INTRODUCTION

In June and July of 1986, MineQuest Exploration Associates Ltd. made a literature review of sediment-hosted magnesite deposits in British Columbia for NORSK HYDRO, at the request of Mr. Tore Vraalstad, Exploration Manager of the Magnesium Division. That investigation (Campbell and Peatfield, 1986) determined that a magnesite occurrence in north-central British Columbia was unclaimed. Following a site visit, seven mineral claims (now the Anzac Property) were staked to cover the prospective ground. At the same time preliminary geological mapping and reconnaissance sampling confirmed the presence of sediment-hosted magnesite along a strike length of about five kilometres (Campbell, 1987).

In the spring of 1989 Mr. Vraalstad commissioned a drill program for a preliminary test of the magnesite occurrences. This report presents the results of that drilling.

1.1 Location, Access and Topography

The Anzac Property is centred 120 kilometres north of Prince George and 60 kilometres southeast of Mackenzie in north-central British Columbia (Figure 1). The claims are situated within National Topographic System areas 93J/16W and 93O/01W and are centred at approximately 54°59'N latitude and 122°22'W longitude.

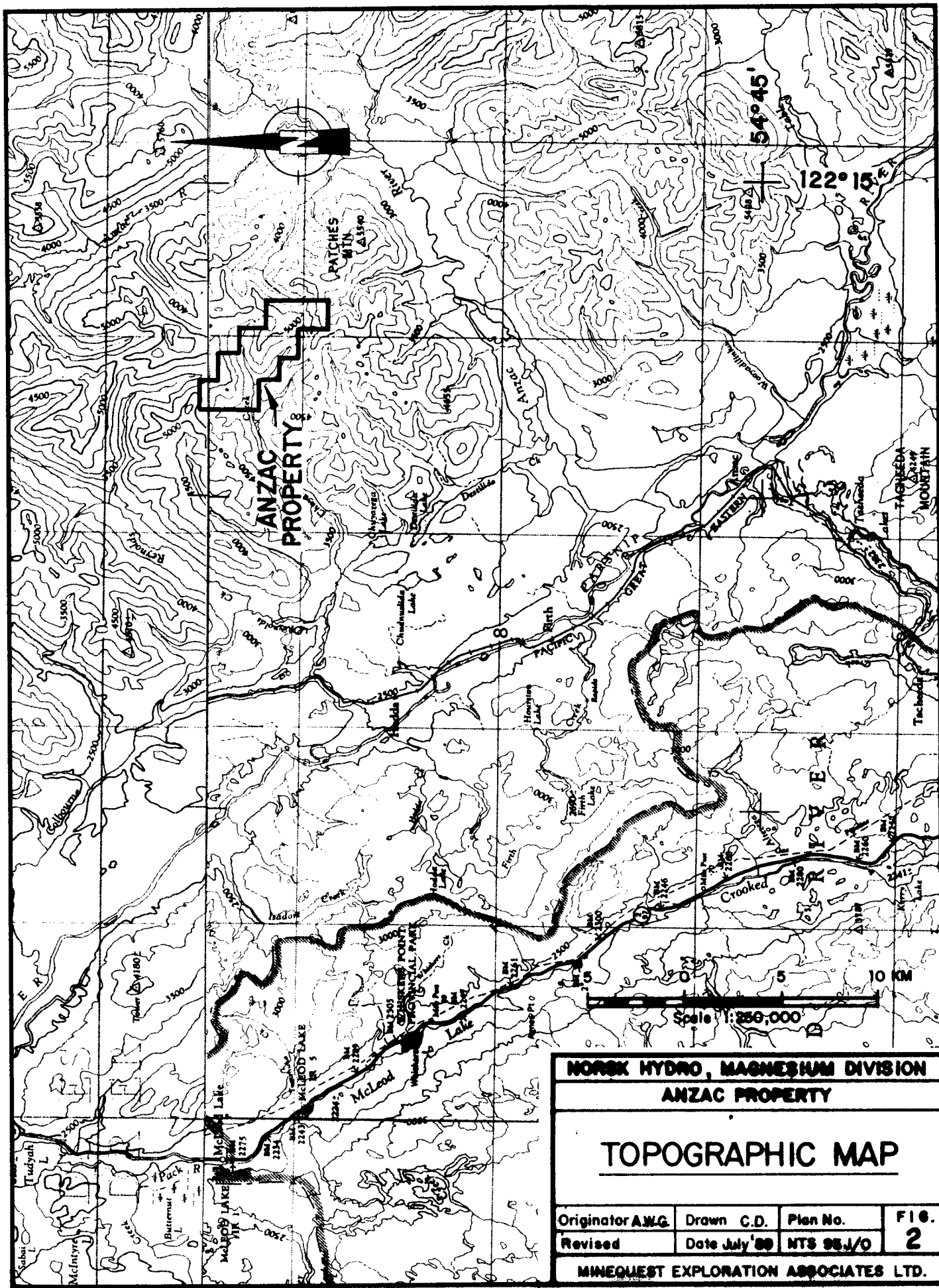


BRITISH COLUMBIA
Scale 1:7,500,000

Scale 1:250,000
KM 5 0 5 10 15

NORSK HYDRO, MAGNESIUM DIVISION			
ANZAC PROPERTY			
LOCATION MAP			
PLAN No.	DRAWN C.D.	DATE JULY '89	FIGURE 1
Revised		N.T.S. 93-J	
MINEQUEST EXPLORATION ASSOCIATES LTD.			

19213



NORX HYDRO, MAGNESIUM DIVISION
ANZAC PROPERTY

TOPOGRAPHIC MAP

Originator A.W.G.	Drawn C.D.	Plan No.	FIG. 2
Revised	Date July '89	NTS 85/J/O	
MINEQUEST EXPLORATION ASSOCIATES LTD.			

Access to the claims is by helicopter, for which there are established bases in both Mackenzie and Prince George. The nearest roads are 20 kilometres west on the east side of the Parsnip River and 15 kilometres to the southwest on the north side of the Anzac River near its confluence with Destilida Creek. The British Columbia Railway line (Prince George - Dawson Creek) lies on the east side of the Parsnip River, 20 kilometres west of the property. A road onto the claims could be established along the Chuyazega Creek valley from the Anzac River road.

Relief within the property is about 715 metres from Patches Mountain (1690 m) to the Chuyazega Creek valley (975 m). Below treeline (1525 m) the area is well forested with dense stands of balsam, fir, spruce and thick undergrowth.

Few outcrops occur below treeline except along stream gullies. Rock exposures are extensive above treeline and in the easterly-facing cirques.

There are several seasonal ponds in the neighbourhood of some of the magnesite occurrences. One of these was used as a water supply for drilling.

1.2 Property Definition and History

The Anzac Property was staked by MineQuest Exploration Associates Ltd. on behalf of Norsk Hydro in 1986 to cover several occurrences of sediment-hosted magnesite along a strike length of about five kilometres. In the fall of 1986, Campbell performed reconnaissance sampling and geological work on the claims. The property was reduced to 72 units from 124 in late 1988.

The only references to this magnesite occurrence (BC MINFILE No. 93J008) is that by Muller and Tipper (1969) who stated that coarse crystalline magnesite is interbedded with fine-grained dolomite in 50 feet (15 m) beds in an unnamed unit (No. 3) of quartzite, calcareous sandstone, grey, green and black silty shale, dolomite and limestone.

1.3 Claim Status

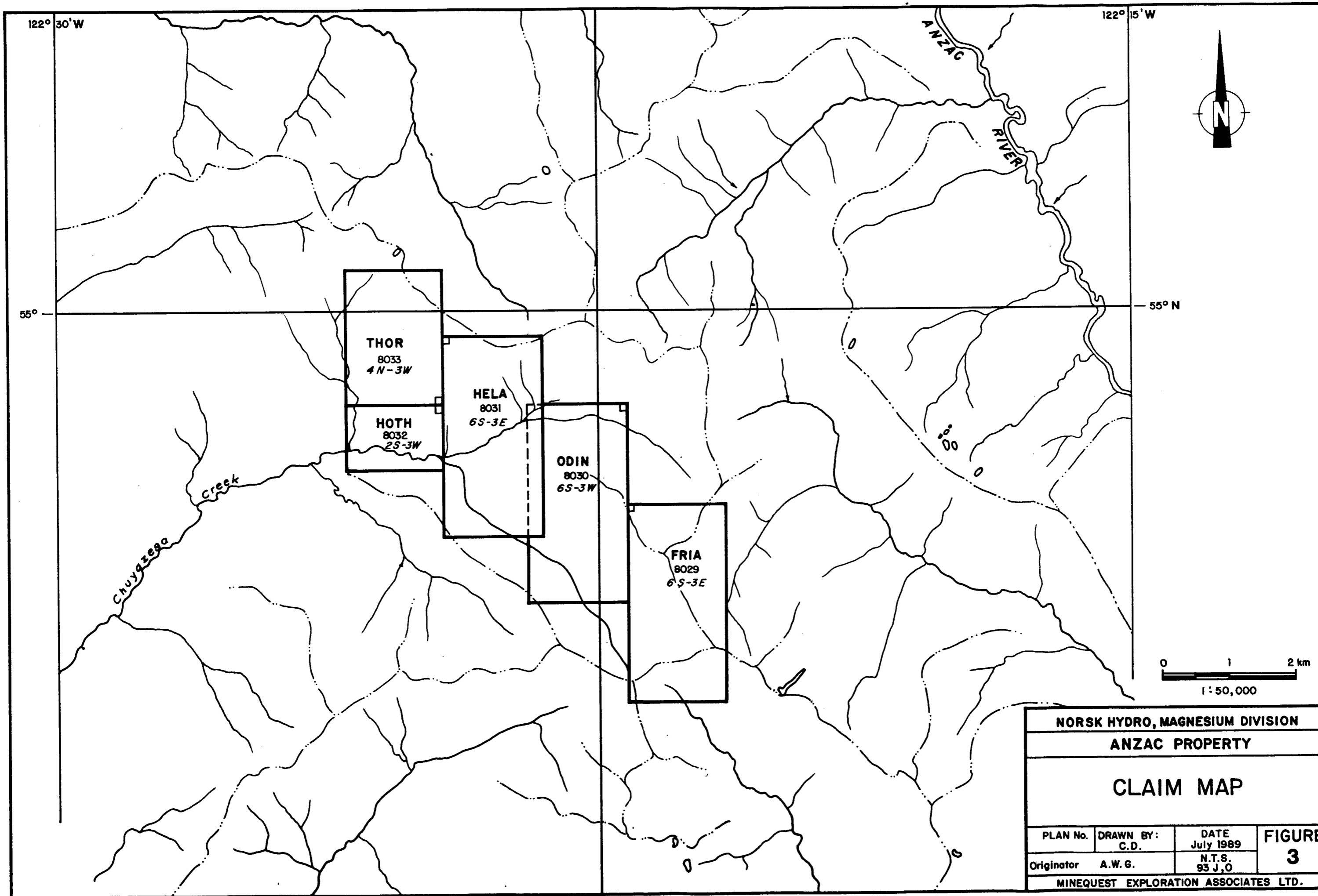
Figure 3 is a claim map of the area. No other mineral claims exist within map areas 93J/16W and 93O/01 W.

Table I lists the claims in good standing as of July 31, 1989. The claims are held by MineQuest Exploration Associates Ltd. in trust for Norsk Hydro.

1.4 Summary of Work - Current Program

Work carried out in this exploration program, which took place from June 15th to June 28th, 1989, consisted of 287 metres of diamond drilling in three holes. A total of 52 drill core and two surface samples were collected.

Drill core was logged and selected sections split and sampled by A.W. Gourlay, who directed the program.



NORSK HYDRO, MAGNESIUM DIVISION			
ANZAC PROPERTY			
CLAIM MAP			
PLAN No.	DRAWN BY:	DATE	FIGURE
	C.D.	July 1989	
Originator	A.W.G.	N.T.S.	3
		93 J, O	
MINEQUEST EXPLORATION ASSOCIATES LTD.			

TABLE 1

Summary of Claim Information as of August 15, 1989

CLAIM	RECORD NUMBER	UNITS ¹	DUE DATE AFTER SUBMISSION OF THIS REPORT ²	RECORDED OWNER
FRIA	8029	18	Oct. 1, 1992	MineQuest Exploration Associates Ltd.
ODIN	8030	18	Oct. 1, 1992	MineQuest Exploration Associates Ltd.
HELA	8031	18	Oct. 1, 1992	MineQuest Exploration Associates Ltd.
HOTH	8032	06	Oct. 1, 1992	MineQuest Exploration Associates Ltd.
THOR	8033	12	Oct. 1, 1992	MineQuest Exploration Associates Ltd.

1 One unit is 500 m x 500 m, or 25 hectares

2 Date on which claim will expire unless assessment work (\$100/unit of each first three years, \$200/unit year thereafter) is performed and filed, at a cost of \$5/\$100 filed.

2.0

GEOLOGY

Campbell (1987) summarized the regional and property geology as follows:

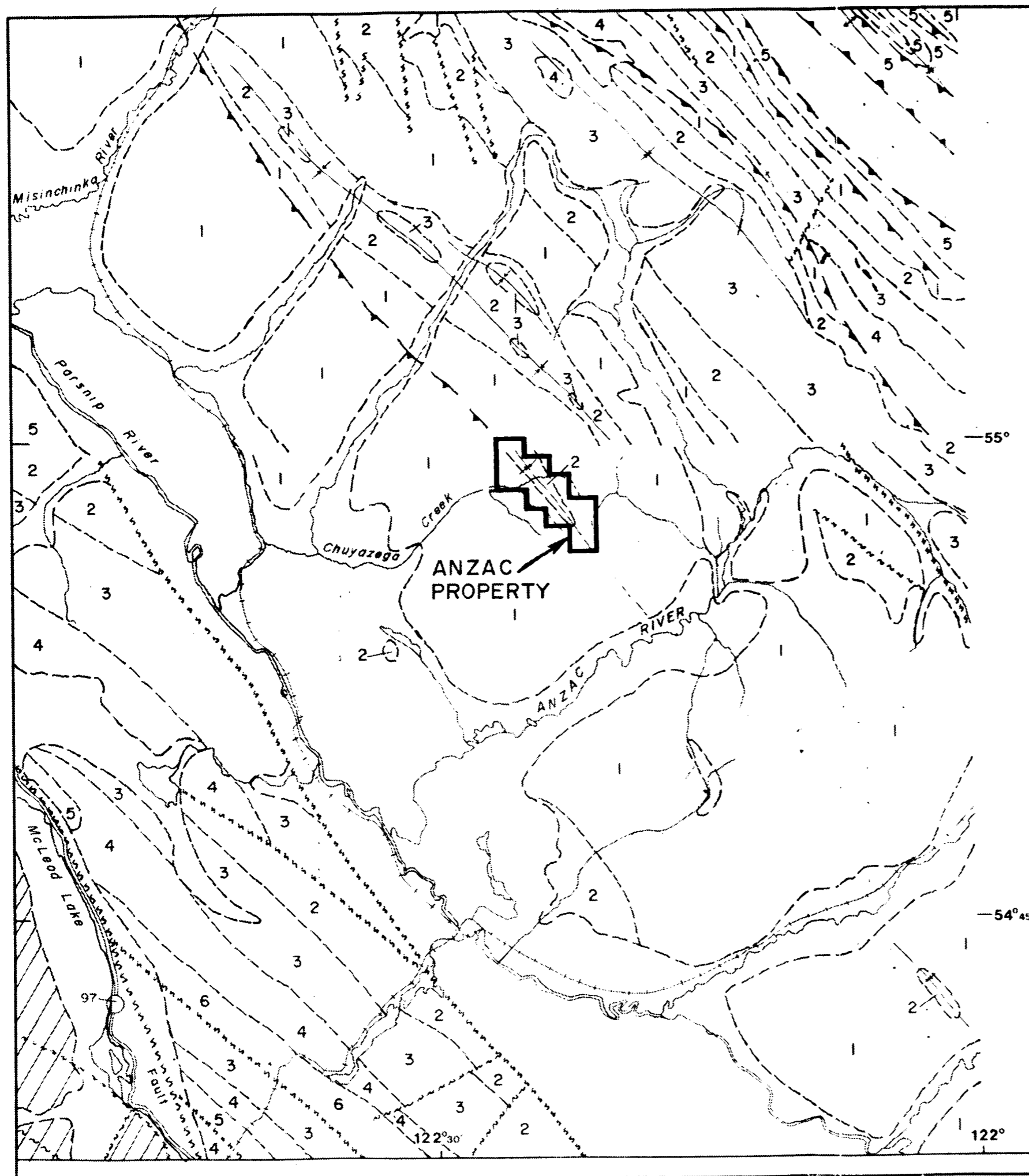
2.1 Regional Geology

Figure 4 illustrates the regional setting of the Anzac Property, as mapped by Muller (1961) and Muller and Tipper (1969).

East of the Parsnip River, which follows the Rocky Mountain Trench, the Rocky Mountains are underlain by Hadrynian (?) to lower Paleozoic metasedimentary and sedimentary rocks; fine-grained schist, slate, quartzite, limestone and dolomite. Two subdivisions of the Misinchinka Group, which makes up the lower portion of this succession, are recognized; a lower unit of chlorite and sericite schist and an upper unit of dark slate. The total thickness of the group, obscured by close folding, is between 1,500 and 3,000 metres.

The slates grade conformably into Lower Cambrian (?) orthoquartzite with a thickness of up to 610 metres, in turn overlain by as much as 425 metres of dolomite. This is the unit that hosts magnesite on the Anzac Property. Archaeocyathids have been reported from this rock unit by Muller (1961) and Muller and Tipper (1969).

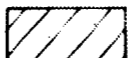
Above the quartzite and dolomite units lies the Upper Cambrian Kechika Group; schistose calcareous shales, slates and siltstones.



LEGEND

TRIASSIC (?) AND/OR JURASSIC (?)

6 argillite, graywacke, shaly limestone, minor andesite and basalt
Slide Mountain Group

 basaltic pillow lavas, andesite, related pyroclastics, argillite, chert, graywacke

DEVONIAN AND (?) LATER
Middle Devonian to Pennsylvanian and/or Permian

5 limestone, silty and shaly limestone, chert, calcareous siltstone and shale

ORDOVICIAN AND SILURIAN
Upper Ordovician to Middle Silurian

Sandpile Group
4 dolomite, limestone, quartzite, calcareous and dolomitic sandstone

CAMBRIAN
Middle and Upper Cambrian to Lower Ordovician




Kechika Group
3 limestone, silty limestone, nodular limestone, calcareous siltstone, calcareous schist, shale

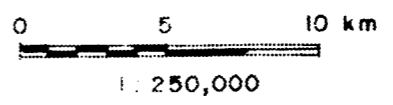
CAMBRIAN AND EARLIER
Lower Cambrian and earlier

2 orthoquartzite, dolomite, limestone, sandy dolomite, red shale, conglomerate, black and green slate

CAMBRIAN AND/OR EARLIER
Lower Cambrian and/or Earlier

Misinchinka Group
1 black slate, slaty graywacke, minor quartzite, conglomerate, graywacke, chlorite and sericite schist, phyllite, schistose grit, quartz-pebble conglomerate

 thrust fault
 fault
 syncline



NORSK HYDRO, MAGNESIUM DIVISION		
ANZAC PROPERTY		
REGIONAL GEOLOGY		
PLAN No.		DATE Jan. 1987
Originator:	G.S.C. Maps 11-1961, 1204-A	N.T.S. 93 J.O
		FIGURE 4
MINEQUEST EXPLORATION ASSOCIATES LTD.		

The stratigraphy in this area is not well elucidated or mapped as indicated by the mismatch of rock units along the border between the Pine Pass map sheet north of latitude 55°N and the McLeod Lake map sheet to the south. Likewise, rock unit contacts, thrust faults and folds are not reconciled between the two map sheets.

West dipping thrust faults and eastward verging folds characterize the Misinchinka Ranges, which are one of a series of fault-bounded blocks in this region.

2.2 Property Geology

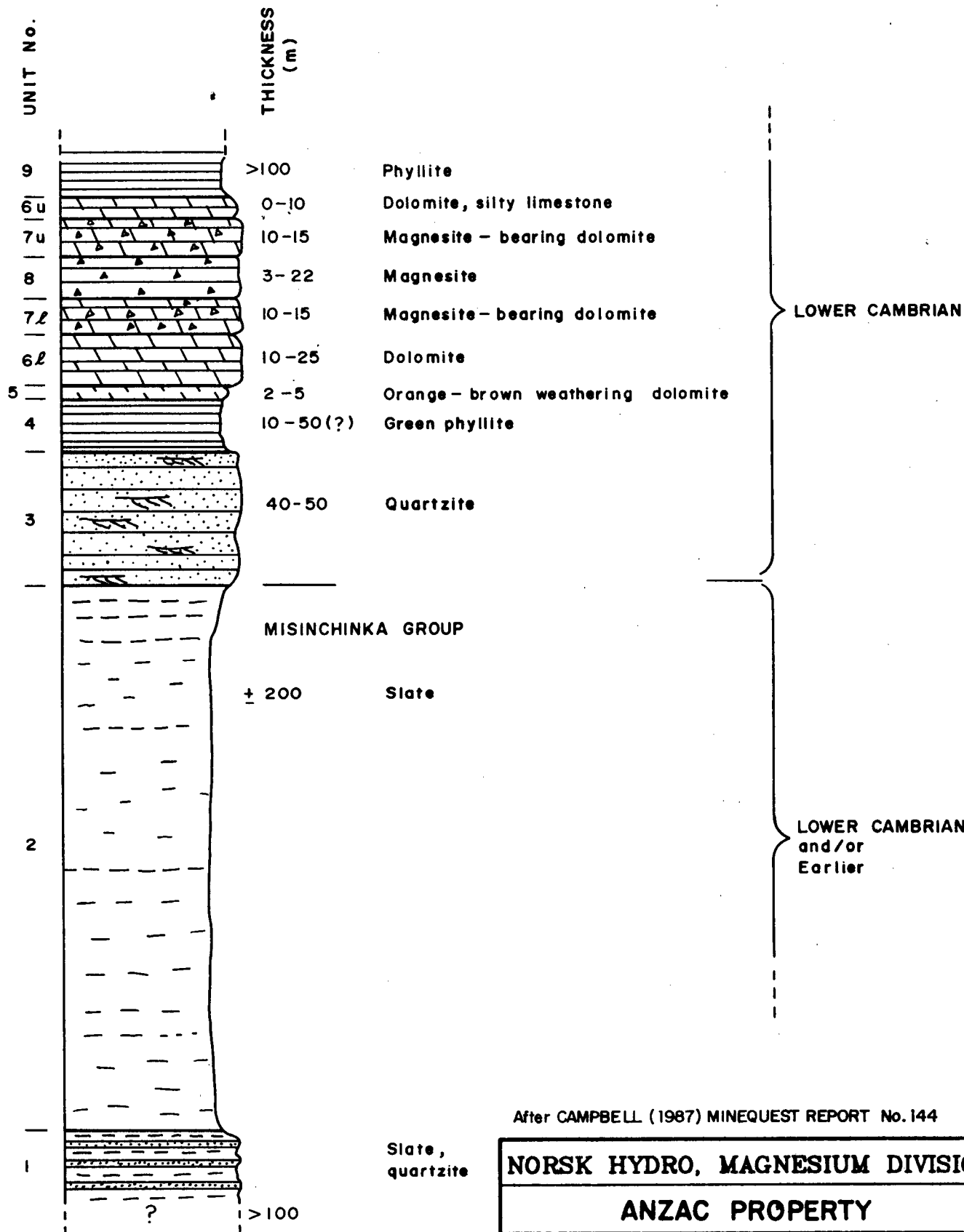
From Campbell (1987)

Coarse crystalline magnesite occurs in beds within a dolomite unit overlying southwest dipping, olive green phyllite, white quartzite, black slate and interbedded black slate and light grey quartzite. Tentatively, the black slate and interbedded slate and quartzite are assigned to the Hadrynian Misinchinka Group. The overlying quartzite and carbonate rocks could correlate with similar rocks of Lower Cambrian age reported elsewhere, but this is not established. The carbonate rocks are overlain by black slate and phyllite. There are five principal magnesite occurrences along a strike length of about five kilometres.

For the purposes of regional mapping and logging drill core the following lithologic units have been used:

- Unit 9: Phyllite, slate
- Unit 8: Magnesite
- Unit 7: Magnesite-bearing Dolomite
- Unit 6: Dolomite
- Unit 5: Dolomitic phyllite
- Unit 4: Phyllite
- Unit 3: Quartzite
- Unit 2: Slate
- Unit 1: Slate, Quartzite

At the Emmet Showing, two bands of coarse crystalline magnesite occur within magnesite-bearing dolomite. The recent mapping has established that the strike of the band changes from 125° to 95° from south to north with a constant dip of 65° to the south.



After CAMPBELL (1987) MINEQUEST REPORT No.144

NORSK HYDRO, MAGNESIUM DIVISION		
ANZAC PROPERTY		
LOCAL STRATIGRAPHIC COLUMN		
DATE: Jan. 1987	N.T.S.: 93J/16,0/1	FIGURE: 5
MINEQUEST EXPLORATION ASSOCIATES LTD.		

3.0

DIAMOND DRILLING3.1 Drilling and Sampling Procedure

Three BQ (3.6 cm diameter) diamond drill holes, totalling 287.11 metres, were drilled using a JKS Boyles BBS-1 drill owned and operated by Core Enterprises Ltd. of Clinton, B.C. Drilling was done on a twelve hour, one shift per day basis. Drill hole locations are shown on Figure 6 and specifications for the drill holes are listed below.

<u>DDH Hole</u>	<u>Dip</u>	<u>Azimuth</u>	<u>Depth (m)</u>	<u>Showing</u>
89-01	-45°	071	101.80	Knoll
89-02	-45°	046	93.87	Emmet
89-03	-45°	017	91.43	Emmet

All sections of massive magnesite, and selected sections of magnesite-bearing dolomite from the footwall and hanging wall were split and sampled. Splitting was performed manually, and samples were collected in doubled plastic bags that were sealed individually. Sample lengths varied with lithology and intervals ranged from 1.45 to 3.72 metres. Samples were placed in burlap sacks and shipped to Acme Analytical Laboratories Ltd. of Vancouver, B.C.

All core boxes were labelled with aluminum tape and are stored on the property at the drill sites.

3.2 Drill Results

The three diamond drill holes encountered the following lithologies:

- Unit 9: Phyllite, slate
- Unit 8: Magnesite
- Unit 7: Magnesite-bearing Dolomite
- Unit 6: Dolomite

The first drill hole was designed to test the high grade coarse magnesite found at the Knoll Showing. The second and third holes were directed at thick coarse magnesite bands reported at the Emmet Showing.

3.2.1 Drill Hole 89-01 (Figure 8)

The first drill hole encountered 6.07 metres of coarse crystalline magnesite from 85.60 to 91.67 metres depth. Two samples collected from this interval returned 40.99% and 34.14% MgO from the upper and lower portions of the magnesite band respectively. Magnesite-bearing dolomite from the footwall and hanging wall returned MgO values from 6.69% to 34.14%.

3.2.2 Drill Hole 89-02 (Figure 9)

The second hole cut two sections of massive, coarse crystalline magnesite. The upper band (40.84 to 55.59 metres depth) averages 40.91% MgO over 14.75 metres, and the lower band (56.94 to 61.69 metres depth) averages 30.60% MgO over 4.75 metres. The upper band of magnesite is coarser (10 to 20 mm grain size) than the lower band, (grain size less than 10mm).

Magnesite-bearing dolomite in the footwall and hanging wall hosts several coarse magnesite interbeds that grade from 29.34% to 39.92% MgO over widths of 0.24 to 3.59 metres. Samples of magnesite-bearing dolomite returned values of 21.92% to 29.22% MgO.

3.2.3 Drill Hole 89-03 (Figure 10)

The third drill hole encountered a section similar to drill hole 89-02. The upper band of magnesite (33.87 to 54.69 metres depth) averages 36.90% MgO over 20.82 metres. A 7.62 metre interval within this section, from 47.07 to 54.69 metres, grades 39.87% MgO. The lower magnesite band (56.23 to 68.00 metres depth) returned 23.38% MgO over an 11.77 metre width.

Interbeds of coarse magnesite hosted by magnesite-bearing dolomite returned MgO values of 27.63% to 34.57% over widths of 0.40 to 3.35 metres. Magnesite-bearing dolomite from the footwall and hanging wall ranged from 21.40% to 31.62% MgO.

Table II summarizes the five drill intersections of massive crystalline magnesite; Tables III, IV and V the units encountered. Detailed logs are found in Appendix III.

TABLE II**Significant Magnesite Intersections From June 1989 Drilling**

<u>SHOWING</u>	<u>DRILL HOLE</u>	<u>FROM - TO</u>		<u>MgO</u> (%)	<u>SiO₂</u> (%)	<u>Al₂O₃+Fe₂O₃</u> (%)	<u>CaO/MgO</u> (%)	
		<u>(m)</u>	<u>(m)</u>					
Knoll	89-01	85.60 - 88.90	40.99	2.51	1.97	0.140		
		88.90 - 91.67	34.14	1.95	1.56	0.135		
Emmet	(Upper band)	40.84 - 44.15	39.03	3.64	1.61	0.176		
		44.15 - 47.45	42.84	0.99	1.67	0.088		
		47.45 - 50.75	41.11	1.93	2.41	0.123		
		50.75 - 54.05	41.25	1.03	1.61	0.146		
		54.05 - 55.59	40.33	1.66	1.52	0.170		
	(Lower band)	56.94 - 60.24	28.49	1.51	1.84	0.735		
		60.24 - 61.69	32.72	0.62	1.49	0.501		
		Emmet	(Upper band)	33.87 - 37.17	35.08	1.86	2.22	0.373
				37.17 - 40.47	34.06	5.47	1.71	0.373
				40.47 - 43.77	38.36	3.60	1.73	0.211
43.77 - 47.07	31.20			2.49	1.85	0.552		
47.07 - 50.37	41.96			0.79	1.65	0.137		
50.37 - 53.67	37.35			2.56	2.24	0.266		
53.67 - 54.69	40.29			0.50	2.36	0.189		
(Lower band)	56.23 - 59.53			22.20	0.24	1.37	1.338	
	59.53 - 62.59	20.89	4.81	0.95	1.361			
	62.59 - 64.48	26.39	0.63	0.96	0.935			
	64.48 - 68.00	24.06	0.83	1.18	1.136			

TABLE III
Summary Drill Log

DDH 89-01 (Knoll Showing, Azimuth 071, Dip -45°)

<u>Interval (m)</u>	<u>Description</u>
0.0 - 4.57	Overburden - cased
4.57 - 15.64	Phyllite; grey to brown, very fine grained, well developed parting.
15.64 - 35.05	Limestone; grey, fine grained, thinly banded
35.45 - 61.90	Dolomite; dark grey, fine grained, thinly banded.
61.90 - 85.60	Dolomite; dark grey, fine grained, massive, with up to 5% magnesite crystals up to 15mm long.
85.60 - 91.67	Magnesite; white to tan, massive, crystalline, average grain size 5 to 8mm.
91.67 - 101.80	Dolomite; dark grey, fine grained, massive, with up to 5% magnesite crystals up to 20mm long.
101.80	End of hole.

TABLE IV
Summary Drill Log

DDH 89-02 (Emmet Showing, Azimuth 046, Dip -45°)

<u>Interval (m)</u>	<u>Description</u>
0.0 - 3.05	Overburden - cased.
3.05 - 40.84	Dolomite; dark grey, fine grained, massive, with up to 5% magnesite. Size of magnesite crystals increase with depth. Several interbeds of massive, crystalline magnesite up to 2.16 metres thick.
40.84 - 55.59	Magnesite (Upper band), white to tan, massive, crystalline, average grain size 10 to 20 mm.
55.59 - 56.94	Dolomite; dark grey, fine grained, massive, up to 5% magnesite crystals.
56.94 - 61.69	Magnesite (Lower band), white to tan, massive, crystalline, average grain size 8 to 10 mm.
61.69 - 98.87	Dolomite; dark grey, fine grained, massive, up to 5% magnesite crystals up to 15mm long. Interbeds of massive crystalline magnesite up to 3.59 metres thick.
98.87	End of hole.

TABLE VSummary Drill Log

DDH 89-03 (Emmet Showing, Azimuth 017, Dip -45°)

<u>Interval (m)</u>	<u>Description</u>
0.0 - 2.35	Overburden - cased.
2.35 - 33.87	Dolomite; dark grey, fine grained, massive, with up to 5% magnesite crystals, up to 20 mm long. Interbeds of massive, crystalline magnesite up to 3.35 metres thick.
33.87 - 54.69	Magnesite (Upper band), white to tan, massive, crystalline, average grain size 15 to 20 mm.
54.69 - 56.23	Dolomite; dark grey, fine grained, massive, up to 5% magnesite crystals.
56.23 - 68.00	Magnesite (Lower band), white to tan, massive, crystalline, average grain size 10 to 15 mm.
68.00 - 91.43	Dolomite; dark grey, medium grained, massive, grain size decreased with depth. Up to 5% magnesite crystals up to 10 mm long.
91.43	End of hole.

3.3 Lithology and Textures

At the Knoll Showing (Figure 8) the coarse magnesite intersected in drilling cannot be correlated with surface outcrop. Several sections of fault gauge and broken core imply fault movement beneath the Knoll showing but the relationship between magnesite at surface and in core is obscure.

At the Emmet showing, drill holes 89-02 and 89-03 (Figures 9 and 10) were both drilled into the magnesite-bearing dolomite. Two distinct bands of crystalline magnesite were recognized; a very coarse upper band, and a medium to coarse grained lower band. The magnesite-bearing dolomite hosts several interbeds of coarse crystalline magnesite up to 3.59 metres thick, and has a thickness of at least 85 metres. The upper band of magnesite has a true thickness of 14.5 metres and the lower band a true thickness of 4.3 metres.

The three intersections of massive, crystalline magnesite are texturally similar. The massive sections are composed of intergrown prismatic magnesite crystals up to 25 mm in length radiating from subparallel surfaces, commonly marked by thin coatings of oxidized pyrite, that are at 70° to 90° to the core axis (Photo 1). Crystal length varies from an average of 8mm at Knoll showing to 20 mm in the upper magnesite band at Emmet Showing (Photo 2). Magnesite in the lower band averages 10 mm in length. The thin interbeds of massive magnesite hosted by magnesite-bearing dolomite at the Emmet showing have the same textures.

Magnesite hosted by the dolomite occurs as prismatic crystals radiating from stylolites (Photo 3). The crystals are less than 15 mm long, but rare examples have lengths of up to 35 mm (Photo 4). The magnesite has weathered out in some sections, leaving a distinct pitted surface in core (Photo 5). The stylolites have irregular surfaces that are at 70° to 90° to the core axis, and are marked by thin seams of oxidized pyrite up to 0.5 mm thick.

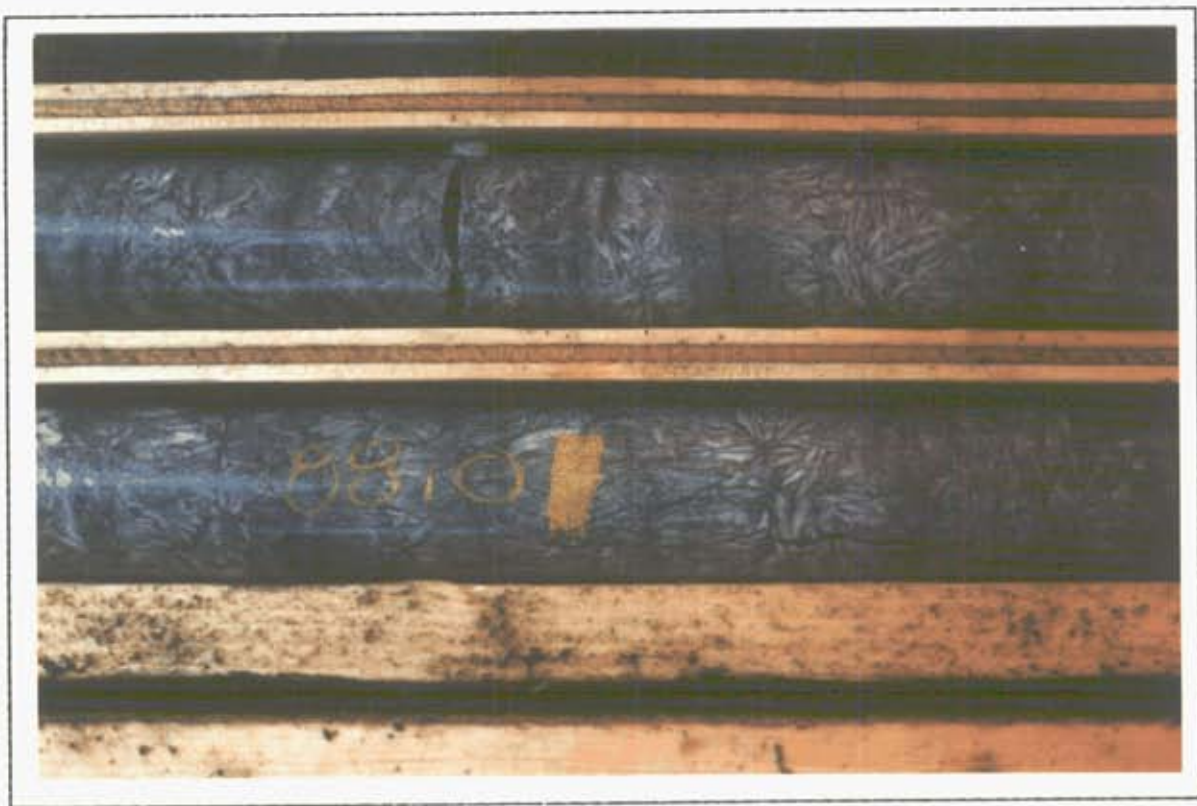


Photo 1: Massive, crystalline magnesite.
Note subparallel bands of magnesite crystals
perpendicular to core.

(DDH 89-01: 88.0 m)



Photo 2: Massive, coarse crystalline magnesite.
Note stylolite at left center of photo.

(DDH 89-02: 48.0 m)



Photo 3: Magnesite crystals radiating from stylolite.
Note thin coating of oxidized pyrite on
stylolite.

(DDH 89-03: 70.0 m)

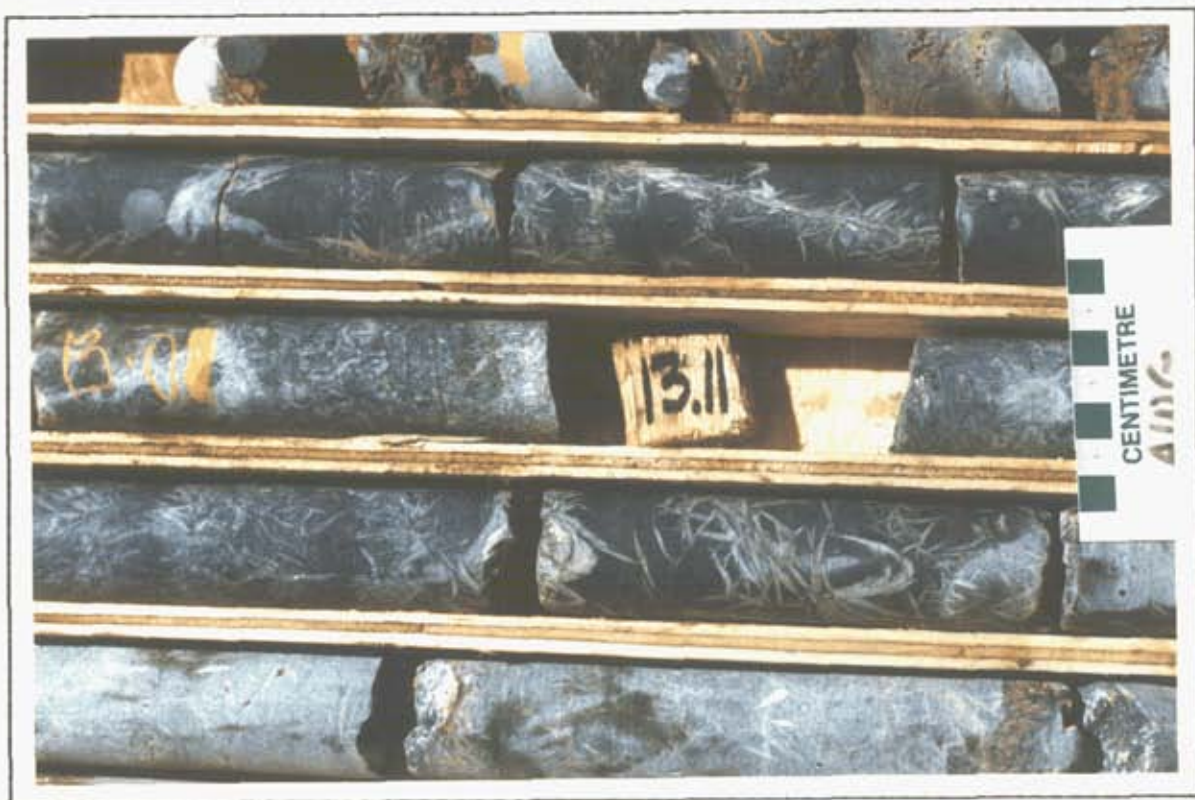


Photo 4: Magnesite crystals radiating from stylolites and rare veins. Length of crystals up to 35 mm.

(DDH 89-04: 13.11 m)



Photo 5: Magnesite weathering out of dolomite.
Note distinct pitted surface.

(DDH 89-05: 15.5 m)

Surface exposures display rapid changes in magnesite content along strike; dolomite may replace massive crystalline magnesite over strike distance as short as three metres.

Textures observed in core and on surface support the theory that magnesite replaced dolomite.

3.4 Analyses

The best magnesite intersected in the drilling is a 3.30 metre section grading 42.84% MgO; 0.99% SiO₂; 1.67% Fe₂O₃ + Al₂O₃; and CaO/MgO: 0.088. This sample is part of a section that returned averages of 41.38% MgO; 1.40% SiO₂; 1.80% Fe₂O₃ + Al₂O₃; and CaO/MgO: 0.132 over a true width of 11.44 metres in drill hole 89-02 (44.15 to 55.59 metres depth).

Table VI summarizes the average values for each massive magnesite band.

The Upper Band of magnesite at Emmet showing is distinctly higher grade than both the Lower Band and the magnesite band drilled at Knoll Showing. Higher grade sections within massive magnesite bands are visually indistinguishable from lower grade intervals.

TABLE VI

Average Values for Each Magnesite Band

<u>Width</u>	<u>MgO</u> (%)	<u>SiO₂</u> (%)	<u>Al₂O₃</u> (%)	<u>Fe₂O₃</u> (%)	<u>CaO</u> (%)	<u>Al₂O₃</u> <u>+Fe₂O₃</u> (%)	<u>CaO/MgO</u>
<u>DDH 89-01 (Knoll Showing)</u>							
6.07 m	37.56	2.23	0.78	0.99	5.17	1.77	0.138
<u>DDH 89-02 (Emmet Showing)</u>							
Upper Band							
14.75 m	40.91	1.85	0.30	1.46	5.71	1.76	0.141
inc 11.44 m	41.38	1.40	0.34	1.47	5.43	1.80	0.132
Lower Band							
1.75 m	30.60	1.07	0.11	1.56	18.67	1.67	0.618
<u>DDH 89-03 (Emmet Showing)</u>							
Upper Band							
20.87 m	36.90	2.46	0.16	1.81	10.63	1.97	0.300
inc 7.62 m	39.87	1.28	0.16	1.92	7.76	2.08	0.197
Lower Band							
11.72 m	23.39	1.63	0.63	1.05	27.54	1.12	1.193

4.0

SURFACE SAMPLING

Two samples were collected from a knob of massive, coarse crystalline magnesite (now named the "Knob" Showing) located between Knoll and Emmet showings (Figure 6). A selected sample of coarse, crystalline magnesite returned 44.77% MgO, and a three metre chip sample collected across the outcrop returned 42.77% MgO.

5.0

DISCUSSION

Preliminary geological mapping, completed in 1986, indicated that the coarse crystalline magnesite band has a strike length of about 5 kilometres, with apparent widths of up to 22 metres. The three exploratory diamond drill holes described in this report have confirmed the magnesite band to a depth of 115 metres, with individual bands of up to 14.5 metres true width.

The highest grades found in the property (44.78% MgO) are from a recently discovered showing which has not been drill tested. This, the "Knob" Showing, is located between the Emmet and Knoll Showings, suggesting that the intervening ground is most prospective.

In the writer's opinion, more work is required around all of the showings. The Knoll Showing, for instance, is not well understood nor has it been completely tested.

6.0

CONCLUSIONS

The recent exploration drilling has shown that:

At the Emmet Showing:

- 1) Coarse crystalline magnesite extends down-dip to a vertical depth of at least 115 metres.
- 2) The magnesite beds have a true thickness of up to 14.5 metres.
- 3) There are two chemically distinct magnesite bands, separated by dolomite.
- 4) One hole (DDH 89-02) returned a true width of 11.4 metres of coarse crystalline magnesite grading 41.38% MgO.

At the Knoll Showing:

- 6) The magnesite-bearing dolomite is overlain by ordinary (magnesite-free) dolomite, limestone, and phyllite.
- 7) The magnesite at surface cannot be correlated with the magnesite intersected in drilling.

General:

- 8) A newly discovered outcrop, untested by drilling, returned 44.77% MgO, 0.75% SiO₂, 0.94% Fe₂O₃ + Al₂O₃ and CaO/MgO: 0.041.
- 9) The ground between the Emmet and Knoll Showings, the down-dip extensions, and the rest of the property (representing 85% of the known strike length) remain unexplored.

7.0

RECOMMENDATIONS

The following exploration program is recommended:

Phase I: Geological Mapping and test soil sampling

The objective of this phase would be to map and sample all the coarse magnesite outcrops, to determine the position of the coarse magnesite within the dolomite unit, and to understand the relationship of magnesite to structure. Test soil sampling near one of the showings would determine whether this could be a useful exploration technique.

In addition to work directed at the Anzac Property, the potential for similar magnesite deposits along strike should be investigated.

Phase IIa: Diamond Drilling - Current Targets

A minimum of 600 metres of drilling in seven holes would test the following:

- a) 2 holes to test dip extension at Emmet Showing;
- b) 2 holes to test the strike extension at Emmet Showing;
- c) 2 holes to test Odin showing;
- d) 1 hole to test Knob showing.

Phase IIb: Diamond Drilling - New Targets

An allowance should be made for testing new targets developed in Phase I and the ground between known showings.

8.0

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APPENDIX I

Laboratory Methods

APPENDIX I

Laboratory Methods

Core samples were shipped to Acme Analytical Laboratories Ltd. in Vancouver, B.C. for preparation and analysis. The samples were crushed to less than 3/16 inch size, from which a 200 gram split was pulverized to 98% minus 100 mesh. A 0.200 gram was fused with LiBO_2 and then dissolved in 100 mls of 5% HNO_3 for 0.5 hour. Determinations of the oxides were then made by ICP (inductively coupled plasma) analytical technique.

APPENDIX II

Laboratory Reports

WHOLE ROCK ICP ANALYSIS

A .1000 GRAM SAMPLE IS PULSED WITH .60 GRAM OF LiBO2 AND IS DISSOLVED IN 50 MLS 5% HNO3.
 - SAMPLE TYPE: Core

DATE RECEIVED: JUN 29 1989

DATE REPORT MAILED: July 11/89

SIGNED BY: C. Long

D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

MINEQUEST EXPLORATION PROJECT ANZAC

File # 89-1800

Page 1

SAMPLE#	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	Ba PPM	La PPM	Zr PPM	Y PPM	Nb PPM	LOI %	SUM %
MGN 89001	.75	.09	.85	44.77	1.83	.06	.05	.01	.07	.02	.01	2511	25	5	5	21	51.0	99.94
MGN 89002	1.72	.12	.85	42.77	4.04	.05	.09	.01	.08	.02	.01	26	26	6	6	20	50.2	99.97
MGN 89003	8.60	1.43	3.99	16.17	26.98	.08	.59	.07	.09	.42	.01	34	25	39	12	20	41.5	99.95
MGN 89004	2.46	.55	3.79	18.27	29.49	.05	.21	.02	.10	.47	.01	17	26	14	8	30	44.5	99.93
MGN 89005	4.33	.93	3.70	17.73	28.65	.05	.39	.04	.10	.42	.01	19	25	25	10	20	43.6	99.96
MGN 89006	30.70	4.18	1.61	6.69	25.31	.06	1.67	.21	.14	.11	.01	88	25	246	20	20	29.2	99.94
MGN 89007	2.51	.82	1.15	40.99	5.74	.05	.07	.03	.13	.03	.01	93	26	33	13	21	48.4	99.96
MGN 89008	1.95	.73	.83	34.14	4.60	.05	.07	.02	.08	.02	.01	50927	25	10	7	20	48.7	99.86
MGN 89009	.14	.11	1.45	25.10	26.11	.05	.05	.01	.06	.07	.01	11	25	11	5	20	46.8	99.97
MGN 89010	.11	.05	2.11	21.14	30.05	.05	.05	.01	.07	.12	.01	6	25	8	5	20	46.2	99.98
MGN 89011	.42	.22	1.06	32.79	16.25	.05	.05	.01	.07	.03	.01	6	25	8	5	24	49.0	99.97
MGN 89012	.17	.05	1.13	24.96	25.80	.05	.05	.01	.07	.07	.01	6	25	5	5	20	47.6	99.98
MGN 89013	1.31	.14	1.32	31.72	17.23	.05	.05	.01	.07	.04	.01	12	27	7	5	33	48.0	99.96
MGN 89014	.40	.04	1.10	25.28	25.42	.05	.05	.01	.06	.04	.01	5	25	5	5	20	47.5	99.97
MGN 89015	.86	.11	.91	29.34	20.79	.05	.05	.01	.08	.04	.01	11	25	8	5	20	47.7	99.96
MGN 89016	3.62	.33	1.14	38.74	7.76	.05	.06	.02	.10	.04	.01	5	25	25	5	20	48.1	99.98
MGN 89017	6.74	.18	1.84	29.22	16.62	.05	.05	.01	.09	.06	.01	11	25	13	5	30	45.1	99.98
MGN 89018	4.47	.06	2.02	27.16	20.37	.05	.05	.01	.09	.07	.01	5	25	6	5	24	45.6	99.97
MGN 89019	3.64	.17	1.44	39.03	6.87	.06	.05	.02	.13	.04	.01	5	25	7	5	22	48.5	99.97
MGN 89020	.99	.28	1.39	42.84	3.79	.05	.05	.01	.11	.03	.01	14	25	8	6	22	50.4	99.96
MGN 89021	1.93	.31	2.10	41.11	5.04	.05	.05	.02	.11	.04	.01	16	25	7	6	20	49.2	99.98
MGN 89022	1.03	.34	1.27	41.25	6.01	.05	.05	.02	.11	.03	.01	5	25	10	5	24	49.8	99.98
MGN 89023	1.66	.41	1.11	40.33	6.86	.05	.05	.02	.13	.03	.01	11	25	10	9	20	49.3	99.97
MGN 89024	1.54	.34	1.37	22.99	27.68	.05	.05	.02	.10	.08	.01	15	25	11	7	24	45.7	99.94
MGN 89025	1.51	.13	1.71	28.49	20.94	.05	.06	.01	.11	.03	.01	6	25	7	6	30	46.9	99.96
MGN 89026	.62	.09	1.40	32.72	16.40	.05	.05	.01	.07	.03	.01	11	25	5	6	24	48.5	99.96
MGN 89027	1.74	.36	2.40	26.56	22.51	.05	.05	.02	.12	.03	.01	11	25	5	6	25	46.1	99.96
MGN 89028	4.46	.57	2.73	27.61	19.51	.05	.05	.02	.11	.04	.01	5	25	6	7	20	44.8	99.97
MGN 89029	1.57	.36	1.96	21.92	28.47	.05	.05	.02	.08	.08	.01	6	25	8	6	31	45.4	99.98
MGN 89030	1.29	.29	1.75	23.55	27.18	.07	.05	.01	.10	.05	.01	6	26	5	5	21	45.6	99.96
MGN 89031	4.83	.33	1.71	34.49	11.30	.05	.05	.02	.10	.05	.01	64	26	10	7	24	47.0	99.96
MGN 89032	1.66	.61	2.27	39.92	6.31	.05	.07	.03	.19	.04	.01	6	25	15	11	31	48.8	99.97
MGN 89033	.28	.15	.90	22.58	29.20	.05	.05	.01	.06	.06	.01	15	25	7	5	20	46.6	99.96
MGN 89034	.06	.04	2.19	22.43	28.40	.05	.05	.01	.05	.06	.01	16	25	5	5	30	46.6	99.96
MGN 89035	.12	.13	.79	27.63	23.18	.05	.06	.01	.06	.03	.01	6	25	8	5	33	47.9	99.98
MGN 89036	.09	.04	1.31	27.81	22.49	.05	.05	.01	.05	.05	.01	6	26	6	5	21	48.0	99.97

SAMPLE#	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	Ba PPM	La PPM	Zr PPM	Y PPM	Nb PPM	LOI %	SUM %
MGN 89037	1.58	.14	1.24	34.57	14.62	.05	.05	.01	.06	.04	.01	5	25	9	5	20	47.8	100.18
MGN 89038	.73	.22	1.49	31.33	18.18	.05	.05	.01	.06	.04	.01	5	25	12	5	20	48.1	100.28
MGN 89039	.32	.10	1.12	32.43	17.70	.05	.05	.01	.08	.04	.01	5	25	6	5	24	48.4	100.32
MGN 89040	.32	.11	1.27	31.62	18.52	.05	.05	.01	.09	.04	.01	5	25	9	5	20	48.2	100.30
MGN 89041	.40	.09	1.48	23.52	27.80	.05	.05	.01	.06	.06	.01	5	25	5	5	20	46.7	100.24
MGN 89042	1.86	.10	2.12	35.08	13.10	.05	.05	.01	.07	.04	.01	5	25	9	5	20	47.9	100.40
MGN 89043	5.42	.30	1.41	34.06	12.70	.05	.05	.02	.08	.05	.01	5	25	19	5	20	46.1	100.26
MGN 89044	3.60	.15	1.58	38.36	8.10	.05	.05	.01	.08	.04	.01	5	25	17	5	20	48.1	100.14
MGN 89045	2.49	.06	1.79	31.20	17.21	.05	.05	.01	.07	.05	.01	5	25	7	5	20	47.3	100.30
MGN 89046	.79	.11	1.54	41.96	5.74	.05	.05	.01	.09	.04	.01	5	25	5	5	20	49.8	100.20
MGN 89047	2.56	.14	2.10	37.35	9.93	.05	.05	.01	.09	.06	.01	5	25	8	5	20	47.8	100.16
MGN 89048	.50	.24	2.12	40.29	7.60	.05	.05	.01	.13	.05	.01	14	25	10	5	20	49.1	100.16
MGN 89049	3.12	.13	1.16	27.24	22.28	.05	.05	.01	.09	.05	.01	9	25	5	5	20	46.1	100.30
MGN 89050	.24	.01	1.36	22.20	29.71	.05	.05	.01	.07	.03	.01	5	25	5	5	20	46.6	100.35
MGN 89051	4.81	.04	.91	20.89	28.44	.05	.05	.01	.06	.03	.01	10	25	9	5	23	44.5	99.81
MGN 89052	.63	.10	.86	26.39	24.68	.05	.08	.01	.07	.03	.01	5	25	6	5	24	47.3	100.22
MGN 89053	.83	.10	1.08	24.06	27.34	.05	.05	.01	.07	.04	.01	5	25	8	6	39	46.7	100.35
MGN 89054	.01	.01	1.33	21.40	31.50	.05	.05	.01	.04	.07	.01	5	25	5	5	20	45.9	100.39
std SO-4	63.75	11.01	3.35	1.00	1.75	1.46	2.34	.59	.21	.08	.02	730	24	314	25	23	11.3	97.02

APPENDIX III

Drill Logs

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL(m)		REC'Y	EST. GRADE	SAM No.	ASSAYS						
			FROM	TO				MgO%	SiO ₂ %	Al ₂ O ₃ %	Fe ₂ O ₃ %	CaO		
87														
			88.0	88.0	100%									
88			88.90	91.67			8908	24.14	1.95	0.33	0.85	4.60		
		Box 12: 88.45 - 95.80m	88.0	89.0	100%									
89		COARSE MAGNESITE to 91.67m.												
		- coarse blocks up to 2.0 cm long, prismatic	89.0	90.0	100%									
		- locally radiating from bedding (?)												
90		- bedding at 60° to A.												
			90.0	91.0	100%									
91														
			91.0	92.0	100%									
92		91.67 - 91.96: transition from coarse magnesite to less than 20% bedded magnesite crystals.	91.67	95.00			8909	25.10	0.17	0.11	1.45	26.11		
		Magnesite content continues to decrease with depth to less than 5% by 95.0m.	92.0	93.0	100%									
93														
		From 91.67m, magnesite hosted by massive GREY DOLomite.	93.0	94.0	100%									
94														
			94.0	95.0	100%									
95														
			95.0	96.0	100%									
96		Box 13: 95.80 - 101.80m	95.0	96.5			8910	21.17	0.11	0.05	2.11	30.05		

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOLOG	DESCRIPTION	INTERVAL(m)		REC'Y	EST. GRADE	SAM No.	ASSAYS						
			FROM	TO				MnO ₂ %	SiO ₂ %	Al ₂ O ₃ %	Fe ₂ O ₃ %	CaO %		
51														
			51.0	52.0	100%									
52														
			52.0	53.0	100%									
53			53.75	54.05			89022	4.25	1.03	0.34	1.27	6.01		
		Box B: 53.74-61.01 m.	53.0	54.0	100%									
54		Massive, coarse, crystalline Magnesite to 55.59 m. - A. fine.	54.05	55.59			89023	40.33	1.66	0.4	1.11	6.86		
			54.0	55.0	100%									
55			55.59	56.94			89024	22.99	1.54	0.34	1.32	22.68		
			55.0	56.0	100%									
56		55.59 - 56.94 m Grey Dolomite, fine grained, ≤ 5% Magnesite xstls												
			56.0	57.0	100%									
57		From 56.94 m Coarse, Crystalline Magnesite. - crystals ≤ 1 cm in length, significantly finer grained than above.	57.0	58.0	100%									
58		- Magnesite is not as massive as coarse but this may be a function of stl size (20-30% magnesite?)	56.94	60.24			89025	24.49	1.51	0.13	1.71	20.94		
			58.0	59.0	100%									
59		- good core - good recovery.												
59.20 - 59.60 FAULT ZONE.			59.0	60.0	90%									
60			60.24	61.01			89026	32.22	0.62	0.09	1.40	16.40		

TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL.	DESCRIPTION	INTERVAL(m)		REC'Y	EST. GRADE	SAM No.	ASSAYS						
			FROM	TO				MnO ₂ %	K ₂ O%	Al ₂ O ₃ %	Fe ₂ O ₃ %	CaO %		
			69.0	70.0	100%									
			68.00	70.71			89020	33.55	1.29	0.29	1.75	27.18		
60° W 45° CA	✓	At 70.79m, contact change to Magnesian dolomite. - Massive Magnesian, fine bedded 5-1.2cm long for the following sections:	70.0	71.0	100%									
		70.79 - 71.29m. 0.90												
		71.69 - 72.28m	71.0	72.0	100%									
		71.29 - 72.69m, semi massive magnesian dolomite, host to by Grey Dolomite as before												
		72.69 - 72.70 clay grade?	72.0	73.0	100%									
			70.71	73.00			89031	34.40	4.83	0.33	1.71	11.30		
		- good core - good recovery	73.0	74.0	100%									
			74.0	75.0	100%									
		Box 11: 74.98 - 82.29m.												
Expt. void at 76	✓	Massive crystalline Magnesian to 76.28m. - last 50cm marked by several voids where drill rods fell forward abruptly	75.0	76.0	100%									
			73.00	76.28			89032	39.92	1.66	0.61	2.27	6.31		
		- at 75.28 large void marks fault(?) contact with under-lying GREY DOLOMITE	76.0	77.0	60%									
		76.28 -												
FAULT ZONE	✓	GREY DOLOMITE as above.	77.0	78.0	50%									
		77.0 - 78.0m, Fault zone, turned into lost core.	76.28	79.50			89033	23.59	0.28	0.15	0.90	24.20		

MINEQUEST EXPLORATION ASSOCIATES LTD.			DRILL LOG - CORE			HOLE No. 29-03		PAGE No. 5						
TEXTURE, ALTER'N, MINERALIZATION, ETC.	GRAPH GEOL	DESCRIPTION	INTERVAL(m)		REC'Y	EST. GRADE	SAM No.	ASSAYS						
			FROM	TO				MgO%	SiO ₂ %	Al ₂ O ₃ %	Fe ₂ O ₃ %	CaO%		
33														
		33.27-37.36m Fault zone (lost circulation zone)	33.0	37.0	100%									
34		MK 29-02 -broken core	31.00	33.27			8704	27.52	0.40	0.09	1.48	27.90		
			34.0	35.0	100%									
35		From 33.27m Coarse, Massive, Crystalline Magnesite												
		- Coarse prismatic blades < 3mm thick by 10-20mm long	35.0	36.0	100%									
36		- appear to radiate from stibolite surfaces and intergrow - thin (< 0.5mm) seams of oxidized pyrite rarely found From 33.27-36.63m.	33.27	37.17			87042	27.08	1.81	0.10	2.12	13.10		
		- trace dm pyrite 35.30-35.43m.	36.0	37.0	100%									
37														
			37.0	38.0	100%									
38		Box 6: 37.60-44.90m. Massive, Coarse Grained Magnesite												
			38.0	39.0	100%									
39		- prismatic blades of magnesite, 10-20mm long, rarely up to 3.4cm long	37.17	40.47			87043	24.06	5.42	0.30	1.41	12.70		
		- interlocking crystals	39.0	40.0	100%									
40		- appear to radiate from stibolite surfaces, rarely marked by stain (< 0.1mm) coatings of oxidized pyrite												
			40.0	41.0	100%									
41		- rare irregularly shaped nodules(?) of whitish magnesite, < 4cm												
		- magnesite colour varies from white to tan.	41.0	42.0	100%									
42			40.47	47.77			87044	26.26	3.60	0.15	1.58	8.10		

APPENDIX IV

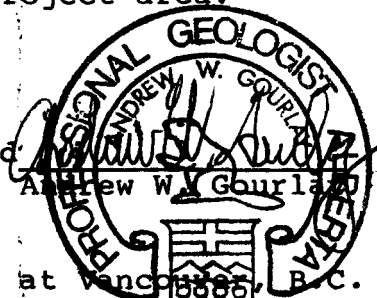
Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I, Andrew W. Gourlay, hereby certify that:

1. I am employed by MineQuest Exploration Associates Ltd. as Senior Geologist
2. I am a graduate of the University of British Columbia (B.Sc. Hons., 1977, in geology).
3. I am a Professional Geologist in good standing with the Association of Professional Engineers, Geologists and Geophysicists of Alberta, and a Fellow of the Geological Association of Canada.
4. I have practised my profession as geologist for more than 10 years.
5. The information used in this report is based on reports, maps, and data lists on file at MineQuest Exploration Associates Ltd., personal logging of the drill core, and familiarity with the project area.

Signed



Dated at Vancouver, B.C.
this 15th day of August, 1989

APPENDIX V

Cost Statement

ANZAC PROJECT (MGN)

COST STATEMENT FOR MONTHS FROM MAY TO AUGUST 1989

FEES

R.V. Longe	25.00 hours at \$ 88.00	\$ 2,200.00	
A.W. Gourlay	120.25 hours at \$ 64.00	7,696.00	
A.W. Gourlay	15 days at \$385.00	5,775.00	
		<hr/>	\$ 15,671.00

TEMPORARY STAFF

C. Donders	99.00 hours at \$ 32.00		3,168.00
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DISBURSEMENTS

Analysis	\$ 1,531.95		
Claims records	1,810.00		
Telecommunications	163.80		
Courier/postage/air express	123.30		
Reprographics	610.08		
Rental vehicles	74.20		
Taxis/parking/bus fares	149.50		
Freight	178.88		
Equipment rentals	257.06		
Food & accommodation, in field	260.81		
General supplies	123.50		
Charter helicopter	12,586.27		
Fuels & lubricants	4.00		
Maps/reports/publications purchased	23.85		
Drilling	24,482.00		
Air fares	1,180.20		
	<hr/>		
	43,559.40		
Program management	4,355.94		
	<hr/>		
			47,915.34

OFFICE CHARGES

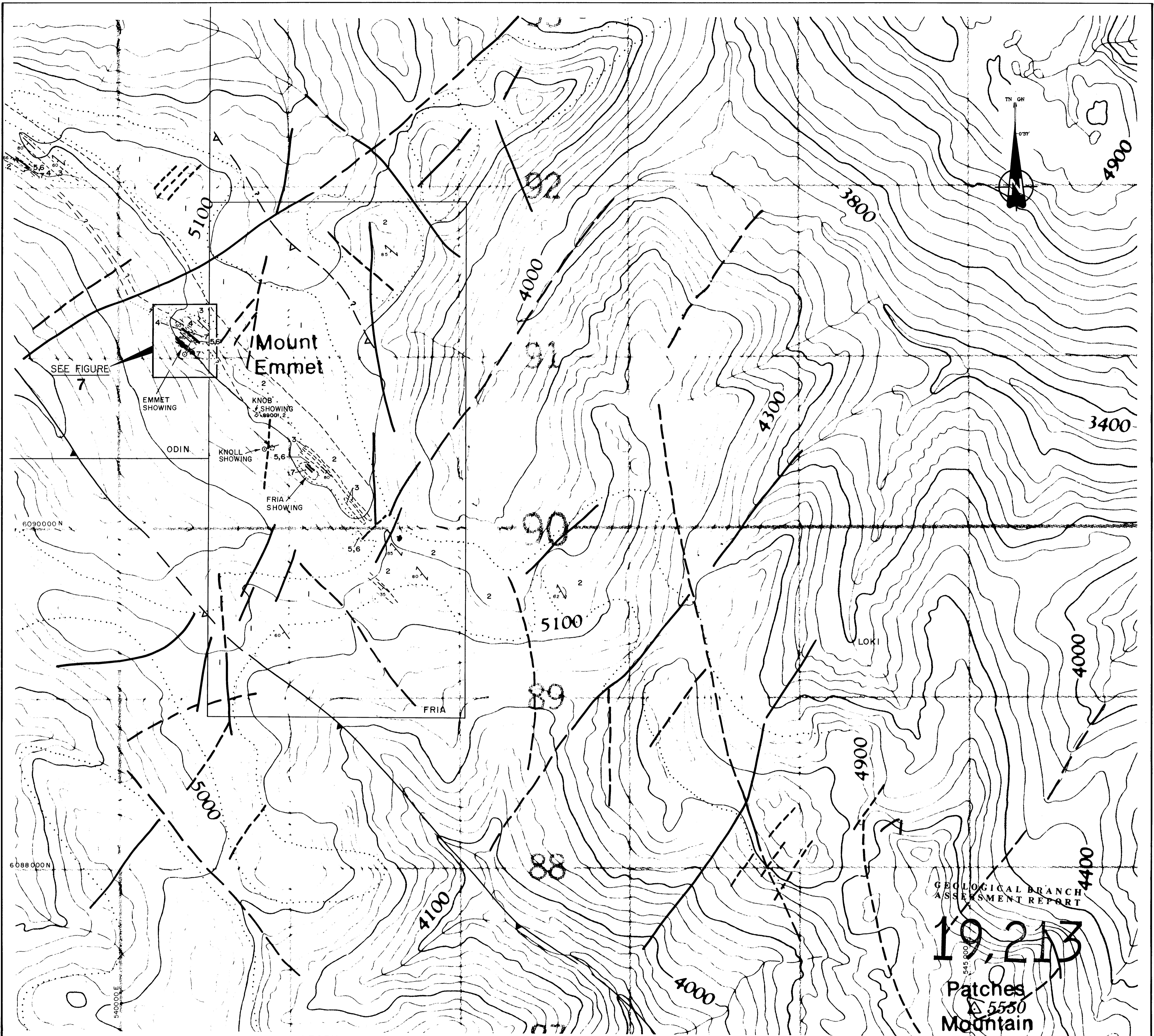
Reprographics, in house	\$ 28.00		
Photocopies, in house	125.00		
Report preparation	305.50		
	<hr/>		
			458.50

\$ 67,212.84

65402.84

APPENDIX VI

Statement of Work



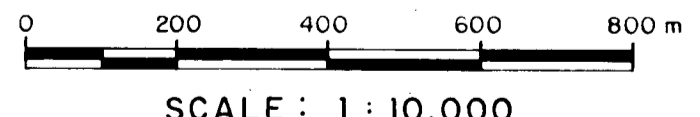
LEGEND

- | | | |
|--|---|--|
| <ul style="list-style-type: none"> 9 Black phyllite Coarse crystalline magnesite 7 Dark grey dolomite with varying amounts of whitish magnesite crystals 5,6 5 - Medium to thick bedded dark gray dolomite
6 - Thin bedded orange brown dolomite 4 Olive green phyllite 3 White to flesh colored quartzite 2 Black slate phyllite 1 Interbedded black slate, quartzite | <ul style="list-style-type: none"> Thrust fault Fault Fracture zone Anticline, syncline Geological contact; approximate, inferred Approximate limit of outcrop DDH location Rock sample | <ul style="list-style-type: none"> Bedding Cleavage Schistosity Glacial grooving |
|--|---|--|

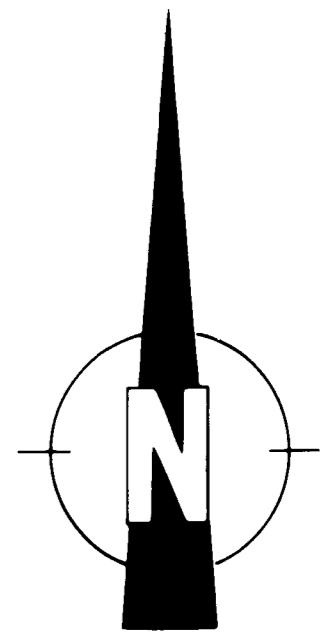
GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,213

Patches
▲ 5550
Mountain



NORSK HYDRO, MAGNESIUM DIVISION				
ANZAC PROPERTY				
SOUTH MAP SHEET				
GEOLOGY				
After CAMPBELL (1987) MINEQUEST REPORT No. 144				
Originator	Drawn	Date	PLAN NO.	FIGURE 6
K.V.C.		JAN '87	1539	
Revision	A.W.G.	C.D.	JULY '89	
Revision			N.T.S. 93J/16	
MINEQUEST EXPLORATION ASSOCIATES LTD.				

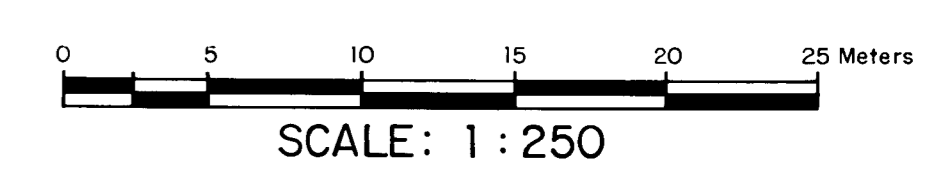


LEGEND

- LITHOLOGY**
- OVERBURDEN
 - PHYLLITE ; grey to brown, very fine grained, well developed parting
 - LIMESTONE ; grey, fine grained, thinly bedded
 - MAGNESITE ; white to tan, massive coarse, crystalline
 - DOLOMITE ; grey, massive, fine grained, with varying amounts of whitish magnesite crystals
- Bedding : strike / dip
- Approximate limit of outcrop
- Geological contact ; approximate, inferred
- Diamond Drill Hole
- Contour : feet above sea level (metres above sea level) approximate only ; derived by enlargement from 1 : 50,000 scale Topographic map.

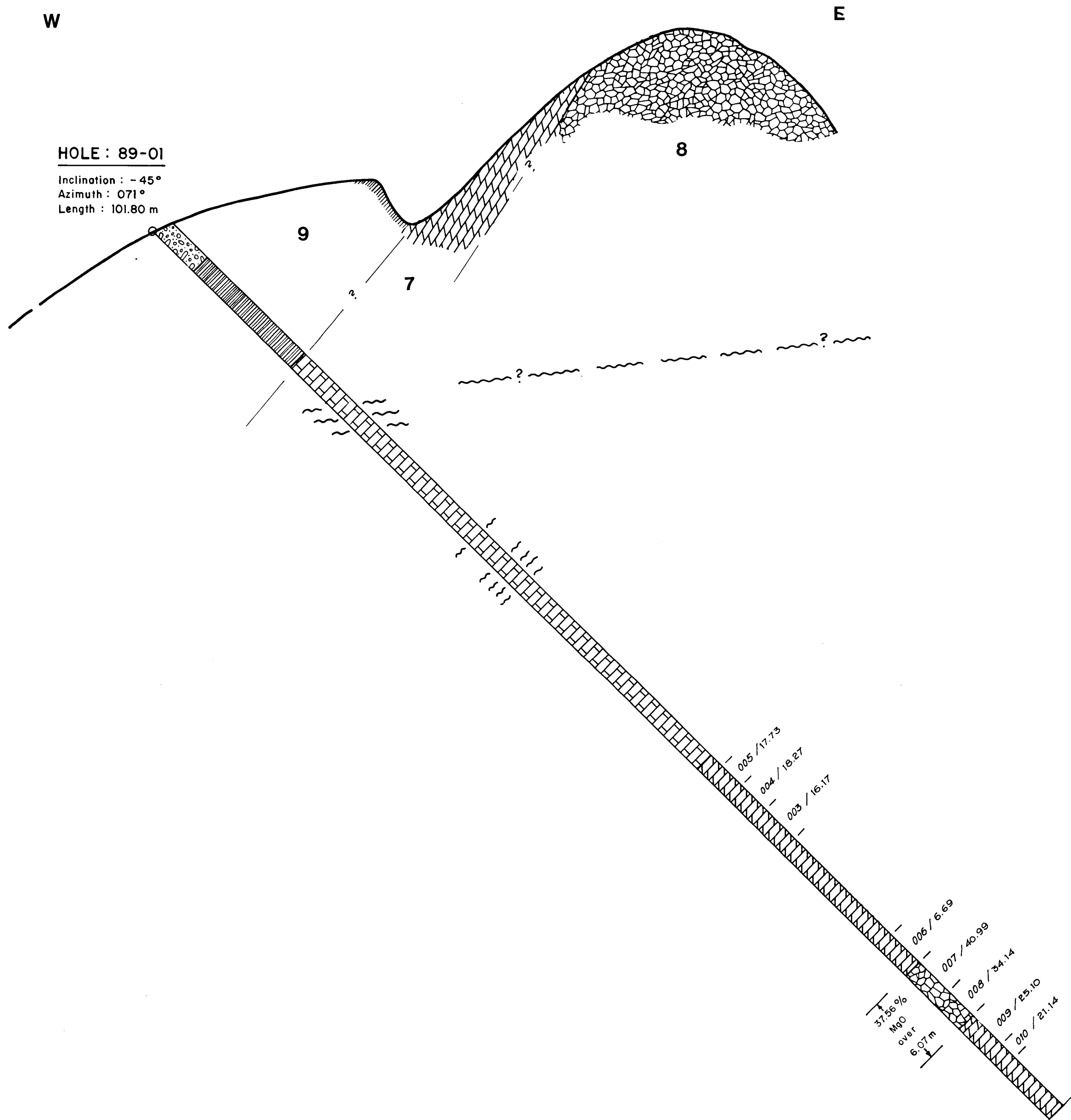
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

19,213



SCALE: 1 : 250

NORSK HYDRO, MAGNESIUM DIVISION					
ANZAC PROPERTY					
EMMET SHOWING					
GEOLOGY					
Originator	Drawn	Date	PLAN	FIG.	
Geology by A.W.G.	C.D.	July 1989	1540		
Revised			N.T.S.		7
Revised			93/J/16		
MINEQUEST EXPLORATION ASSOCIATES LTD.					



Legend

UNIT NO.	LITHOLOGY
	OVERBURDEN
9	PHYLITE ; grey to brown, very fine grained, well developed parting
	LIMESTONE ; grey, fine grained, thinly banded
8	MAGNESITE ; white to tan, massive, coarse, crystalline
7	DOLOMITE ; grey massive, fine grained, with varying amounts of whitish magnesite crystals

003/15.10 Sample Number / % MgO
 (All samples prefixed "MGN 89...")

Results

Sample Number	MgO (%)	SiO ₂ (%)	Al ₂ O ₃ (%)	Fe ₂ O ₃ (%)	CaO (%)	Al ₂ O ₃ +Fe ₂ O ₃ (%)	CaO/MgO
003	16.17	8.60	1.43	3.99	26.98	5.42	1.669
004	18.27	2.46	0.55	3.79	29.49	4.34	1.614
005	17.73	4.33	0.93	3.70	28.65	4.63	1.616
006	6.69	30.70	4.18	1.61	25.31	5.79	3.783
007	40.99	2.51	0.82	1.15	5.74	1.97	0.140
008	34.14	1.95	0.73	0.83	4.60	1.56	0.135
009	25.10	0.14	0.11	1.45	26.11	1.56	1.040
010	21.14	0.11	0.05	2.11	30.05	2.16	1.422

Note :

Complete results tabulated in Appendix II

MINEQUEST REPORT GEOLOGICAL BRANCH ASSESSMENT REPORT

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SCALE : 1 : 250

NORSK HYDRO, MAGNESIUM DIVISION				
ANZAC PROPERTY				
KNOLL SHOWING				
SECTION THROUGH DRILL HOLE 89-01				
Originator	Drawn	Date	PLAN NO.	FIGURE 8
A.W.G.	C.D.	July '89	1541	
Revision			N.T.S. 93J/16	
MINEQUEST EXPLORATION ASSOCIATES LTD.				

SW

NE

HOLE : 89-02
Inclination : -45°
Azimuth : 046°
Length : 93.87 m

Legend

UNIT NO.	LITHOLOGY
	OVERBURDEN
9	PHYLLITE ; grey to brown, very fine grained, well developed parting
	LIMESTONE ; grey, fine grained, thinly banded
8	MAGNESITE ; white to tan, massive, coarse, crystalline
7	DOLOMITE ; grey, massive, fine grained, with varying amounts of whitish magnesite crystals

015/29.34 Sample Number / % MgO
(All samples prefixed "MGN 89...")

Results

Sample Number	MgO (%)	SiO ₂ (%)	Al ₂ O ₃ (%)	Fe ₂ O ₃ (%)	CaO (%)	Al ₂ O ₃ +Fe ₂ O ₃ (%)	CaO/MgO
011	32.79	0.42	0.22	1.06	16.25	1.28	0.496
012	24.96	0.17	0.05	1.13	25.80	1.18	1.034
013	31.72	1.31	0.14	1.32	17.23	1.46	0.543
014	25.28	0.40	0.04	1.10	25.42	1.14	1.006
015	29.34	0.86	0.11	0.91	20.79	1.02	0.709
016	38.74	3.62	0.33	1.14	7.76	1.47	0.200
017	29.22	6.74	0.18	1.84	16.62	2.02	0.569
018	27.16	4.47	0.06	2.02	20.37	2.08	0.750
019	39.03	3.64	0.17	1.44	6.87	1.61	0.176
020	42.84	0.99	0.28	1.39	3.79	1.67	0.089
021	41.11	1.93	0.31	2.10	5.04	2.41	0.123
022	41.25	1.03	0.34	1.27	6.01	1.61	0.146
023	40.33	1.66	0.41	1.11	6.86	1.52	0.170
024	22.99	1.54	0.34	1.37	27.68	1.71	1.204
025	28.49	1.51	0.13	1.71	20.94	1.84	0.735
026	32.72	0.62	0.09	1.40	16.40	1.49	0.501
027	26.56	1.74	0.36	2.40	22.51	2.76	0.848
028	27.61	4.46	0.57	2.73	19.51	3.30	0.707
029	21.92	1.57	0.36	1.96	28.47	2.32	1.299
030	23.55	1.29	0.29	1.75	27.18	2.04	1.154
031	34.49	4.83	0.33	1.71	11.30	2.04	0.328
032	39.92	1.66	0.61	2.27	6.31	2.88	0.158
033	22.58	0.28	0.15	0.90	29.20	1.05	1.293

GEOLOGICAL BRANCH
ASSESSMENT REPORT

Note :

Complete results tabulated in Appendix II
MINEQUEST REPORT NO. 221

19,213



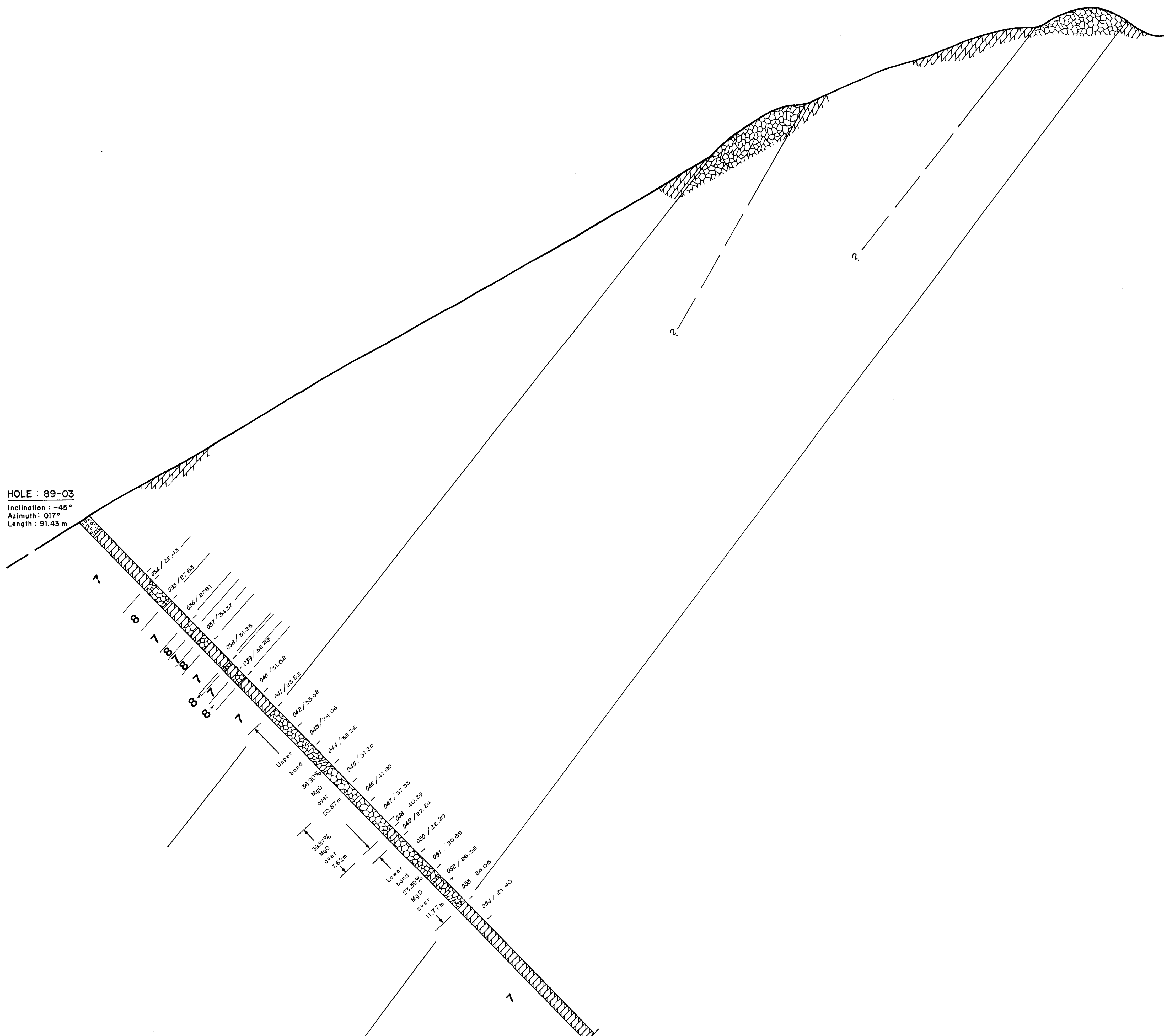
SCALE : 1 : 250

NORSK HYDRO, MAGNESIUM DIVISION						
ANZAC PROPERTY						
EMMET SHOWING						
SECTION THROUGH DRILL HOLE 89-02						
Originator	Drawn	Date	PLAN NO.	FIGURE 9		
Originator	A.W.G.	C. D.	July '89			1542
Revision						N.T.S. 93 J/16
MINEQUEST EXPLORATION ASSOCIATES LTD.						

S

N

HOLE : 89-03
Inclination : -45°
Azimuth : 017°
Length : 91.43 m



Legend

UNIT NO.	LITHOLOGY
	OVERBURDEN
9	PHYLLITE ; grey to brown, very fine grained, well developed parting
	LIMESTONE ; grey, fine grained, thinly banded
8	MAGNESITE ; white to tan, massive, coarse, crystalline
7	DOLOMITE ; grey, massive, fine grained, with varying amounts of whitish magnesite crystals

045/41.96 Sample Number / % MgO
(All samples prefixed "MGN 89 ...")

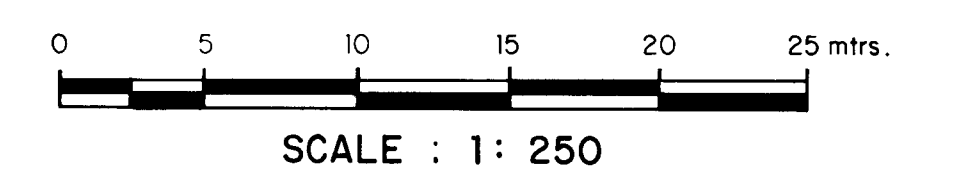
Results

Sample Number	MgO (%)	SiO2 (%)	Al2O3 (%)	Fe2O3 (%)	CaO (%)	Al2O3+Fe2O3 (%)	CaO/MgO
034	22.43	0.06	0.04	2.19	28.40	2.23	1.266
035	27.63	0.12	0.13	0.79	23.18	0.92	0.839
036	27.81	0.09	0.04	1.31	22.49	1.35	0.809
037	34.57	1.58	0.14	1.24	14.62	1.38	0.423
038	31.33	0.73	0.22	1.49	18.18	1.71	0.580
039	32.43	0.32	0.10	1.12	17.70	1.22	0.546
040	31.62	0.32	0.11	1.27	18.52	1.38	0.586
041	23.52	0.40	0.09	1.48	27.80	1.57	1.182
042	35.08	1.86	0.10	2.12	13.10	2.22	0.373
043	34.06	5.42	0.30	1.41	12.70	1.71	0.373
044	38.36	3.60	0.15	1.58	8.10	1.73	0.211
045	31.20	2.49	0.06	1.79	17.21	1.85	0.552
046	41.96	0.79	0.11	1.54	5.74	1.65	0.137
047	37.35	2.56	0.14	2.10	9.93	2.24	0.266
048	40.29	0.50	0.24	2.12	7.60	2.36	0.189
049	27.24	3.12	0.13	1.16	22.28	1.29	0.818
050	22.20	0.24	0.01	1.36	29.71	1.37	1.338
051	20.89	4.81	0.04	0.91	28.44	0.95	1.361
052	26.39	0.63	0.10	0.86	24.68	0.96	0.935
053	24.06	0.83	0.10	1.08	27.34	1.18	1.136
054	21.40	0.01	0.01	1.33	31.50	1.34	1.472

GEOLOGICAL BRANCH
ASSESSMENT REPORT

Note:
Complete results tabulated in Appendix II
MINEQUEST REPORT No. 221

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NORSK HYDRO, MAGNESIUM DIVISION				
ANZAC PROPERTY				
EMMET SHOWING				
SECTION THROUGH DRILL HOLE 89-03				
Originator	Drawn	Date	PLAN NO.	FIGURE
Original A.W.G.	C.D.	July '89	1543	
Revision			N.T.S.	
Revision			93 J/16	10
MINEQUEST EXPLORATION ASSOCIATES LTD.				